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DOCTORS' AND CANDIDATES' DISSERTATIONS DEFENDED 1952
IN THE NATURAL SCIENCES FACULTIES OF MOSCOW STATE UNIVERSITY

Vestnik Moskovskogo Universiteta, Seriya Fiziko-
Matematicheskikh i Yestestvennykh Nauk, No 1,
 Moscow, Feb 1953, pp 151-157

[Note: The following report gives the titles of dissertations defended in the Natural Sciences Faculties of Moscow State University. The eight doctors' dissertations were defended in 1952; the 98 candidates' dissertations were defended in the first half of 1952.]

I. DOCTORS' DISSERTATIONS

Mechanics and Mathematics Faculty

- A. L. Brudno, Summation of Finite Series by Means of Toeplitz Matrices, 5 Jul.

Chemistry Faculty

1. V. M. Tatevskiy, Several Questions in the Theory of Molecular Systems, 11 Feb.
2. A. S. Vetrov, Mercurimetry in Volumetric Analysis, 2 Jun.
3. A. A. Algudzhn, The Study of Metallics: Palladium, Cobalt, and Nickel on Aluminum Oxide -- As Catalysts of Hydrogenation, 27 Oct.
4. V. S. Tongur, Regeneration of Protein Under Pressure, 27 Oct.
5. S. D. Gritsyuta, An Investigation in the Field of Tinting Organic and Inorganic Substances, 24 Nov.

Biology - Soil Faculty

- N. V. Lobanov, Mycotrophy of Arboreal Plants, 7 Apr.

Geology Faculty

- D. I. Gordeyev, Basic Stages of the History of Domestic Hydrogeology, 22 Dec.

II. CANDIDATES' DISSERTATIONS

Mechanics and Mathematics Faculty

1. Sh. Sh. Sutyusheva, An Estimate of the Error Appearing in the Solution of Dirichlet's Problem for Laplace's Equation by the Method of Finite Differences, 7 Apr.

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2. I. G. Shcherbina-Samoylova, A Study of the Large Solar Spectrograph of the Kuchin Astrophysical Observatory, State Astronomical Institute imeni Shternberg, and the Application of the Obtained Results to the Determination of the Actual Contours of the Sodium Lines in the Solar Spectrum, 2 Jun.
3. P. T. Reznikovskiy, The Analytical Theory of Secular Long-Period Perturbations in the Motion of Mercury, 7 May.
4. Ye. V. Ryabova, Transverse Stroke With Variable Speed Along an Elastic Thread, 7 May.
5. G. N. Shushara, Forced Vibrations of a Nonlinear System of Regulation With Two Degrees of Freedom, 7 May.
6. A. G. Naftalevich, Several Questions of the Interpolation of Meromorphic Functions, 7 May.
7. I. M. Uvarenkov, On the Question of Reducibility of a System of Linear Homogeneous Differential Equations With Limiting Periodic Coefficients, 7 May.
8. E. Z. Shuvalova, On the Absolute Convergence of Series of Polynomials, 7 May.
9. Ye. B. Kostyakova, An Investigation of the Integral Spectrum of Bright Clouds in the Milky Way With the Aid of Soviet Illuminating Spectrographs, 7 May.
10. A. Sh. Blokh, On the Identification of a Differential Equation by its Spectral Matrix Function, 7 May.
11. A. A. Zykov, Summarizing the Problem of Solubility in Logical Calculi, 7 May.
12. O. V. Lokutsiyevskiy, On Several Questions in the Theory of Continuous Reflections of Closed Sets, 7 May.
13. A. M. Molchanov, A Criterion of Discreteness of the Spectrum of a Second-Order Differential Equation, 7 May.
14. R. E. Vinograd, Several Questions on Lyapunov Stability, 2 Jun.
15. A. A. Milyutin, On the Ranges of Continuous Functions, 2 Jun.
16. B. U. Britan, The Congruence of Geodesic and Ruled Surfaces in 3-Dimensional Riemann Space and in Space of Constant Curvature, 2 Jun.
17. M. I. Grabar', Irreducible Dynamic Systems, 2 Jun.
18. A. M. Vasil'yev, Invariant Analytic Methods in Differential Geometry, 3 Jul.
19. Ye. P. Zhidkov, Differential Equations of Parabolic Type With Small Parameter, 3 Jul.
20. S. T. Zavalb, Operator-Free Groups, 3 Jul.
21. A. F. Mishina, Direct Sums of Torsionless Abel Groups of the First Rank, 3 Jul.

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22. Ya. I. Polyakov, On the Representation and Uniqueness of Entire Functions of Finite Order, 2 Jun.
23. I. A. Tyulina, Development of the Mechanics Governing the Reactive Rocket Motion of Bodies of Variable Composition, 2 Jun.
24. V. P. Cherenin, Several Questions on the Synthesis of Regular Geared Mechanisms, 3 Jul.
25. L. Sh. Khodzhayev, Generalized Newton Potential of an Unlimited Mass, 3 Jul.
26. P. A. Tsitovich, Disturbed Motions of Gyroscopes, 3 Jul.
27. Ye. N. Miroslavlev, On the Influence of Time Constants in Nonlinear Vibrating Systems, 3 Jul.
28. A. G. Mladov, On the Interpolation of Entire Functions and Functions Analytic Within a Domain, 3 Jul.
29. L. A. Chudov, Isolated Special Points and Lines of Linear Partial Differential Equations, 3 Jul.
30. K. A. Sitnikov, On Continuous Reflections of Open Sets in Euclidean Space, 3 Jul.

State Astronomical Institute imeni Shternberg

1. Z. I. Shukstova, Photographic Observations of Binary Stars in the Moscow Observatory, 3 Jul.
2. Z. V. Karyagina, Determination of the Stellar Magnitude of the Sun, 3 Jul.
3. G. A. Leykin, Study of the Hypotheses on Heating of the Solar Corona, 7 Apr.
4. K. A. Shteyns, Application of Averaged Variants of the Three-Point Problem to the Theory of Small Planets, 2 Jun.

Physics Faculty

1. K. A. Velikzhanina, Investigation of a New Type of Resonance Sound Absorber, 7 Apr.
2. I. M. Redzhepov, Determination of the Dielectric Permeability and the Tangent of the Angle of Loss of Solid and Liquid Dielectrics by the Hollow Resonator Method, 2 Jun.
3. I. I. Minakova, Synchronization of Self-Excited Oscillatory Systems Described by Second-Order Equations, 2 Jun.
4. V. F. Kiselev, Heats of Adsorption by Solid Adsorbers of Pure Liquids and Solutions, 2 Jun.
5. S. A. Yuganova, Thermal Method of Determination of Purity and Structural Diagram of a Series of Normal Paraffin Hydrocarbons, 3 Jul.
6. A. A. Fredvoditelev, Creepage in Dynamic Loads, 2 Jun.

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7. B. A. Smirnov, Amplification of Sound in Binary Mixtures, Having Critical Temperature of Diffusion, 2 Jun.
8. G. Ya. Myakishev, Several Questions on the Behavior of Plasma and Electron Beams in Electromagnetic Fields, 3 Jul.
9. G. S. Solntsev, Study of Jet Discharge, 3 Jul.
10. L. N. Kaptsov, Experimental Study of Self-Excited Oscillatory Systems With Thermistors, 3 Jul.
11. A. I. Pil'shchikov, Study of Ferromagnetic Resonance With the Help of Hollow Resonators, 3 Jul.
12. Ye. M. Dubinina, Investigation and Correction of Spherical and Chromatic Aberrations of Electrostatic Lenses, 3 Jul.
13. D. M. Sivtsev, The Role of Russian Scientists in the Study of the Critical State of Bodies in the Second Half of the 19th Century, 3 Jul.
14. V. N. Lazukin, Investigation of Ferromagnetic Resonance in Centimeter Waves, 3 Jul.
15. A. V. Bondarenko, Investigation of the Limit Phenomena of Forced Combustion of Gaseous Mixtures Containing Inert Diluents, 3 Jul.
16. V. A. Popov, Study of the Transition of Normal Combustion to Detonation in Tubes, 7 Apr.

Chemistry Faculty

1. I. Ye. Yablokova, Mechanism of the Reduction of Oxygen and Peroxide of Hydrogen on a Mercury Electrode, 11 Feb.
2. G. M. Florianovich, Electroreduction of Anions on a Mercury Cathode, 11 Feb.
3. I. K. Sarycheva, Transformation of Isoalkanes of Composition C₇-C₈ in the Liquid Phase Under the Influence of Aluminum Chloride, 7 Apr.
4. A. I. Gershenovich, Sulfochlorination of Hydrocarbons, 7 Apr.
5. Sharban Battalova, Investigation of the Kinetics of the Transformation of Cetane Over Aluminosilicate Catalysts of Varied Composition, 7 Apr.
6. N. A. Vasyunina, Catalytic Dehydrogenation of Aliphatic Amines, 2 Jun.
7. A. A. Voytekhov, The Influence of Several Physical Factors on the Kinetics of Dehydrogenation of Cyclohexane and Hydrogenation of Benzene, 2 Jun.
8. N. M. Merlis, Investigation of 1-Phenylpocamphor and Its Isomers, 3 Jul.
9. Ye. M. Sokolovskaya, Investigation of the Alloys of the Palladium, Silver, and Copper System, 3 Jul.
10. V. A. Troshkina, Investigation of Thermal Effects During the Formation of High-Coercivity Alloys on a Base of Iron, Nickel, and Aluminum, 3 Jul.
11. Ye. P. Andreyeva, The Influence of Surface-Active Organic Substances on the Speed of Electrochemical Reactions on a Mercury Electrode, 3 Jul.

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12. I. G. Petrova, Investigation in the Field of Amino Acid Amidines of the Dihydropyrazine Series, 3 Jul.

Biology - Soil Faculty

1. P. K. Serbenyuk, The Participation of the Nervous System in the Realization of the Influence of Chemical Factors of Pancreatic Secretion, 7 Apr.
2. V. I. Grebenshchikova, Comparative Morphological and Histochemical Investigations of the Digestive Tracts of the Hare and Pig, 7 Apr.
3. I. N. Kryukova, Development and Regeneration of the Tympanic Membrane in Mammals, 7 Apr.
4. N. S. Lebedinova, Cedar Forests of the Altay State National Forest, 7 Apr.
5. Yu. I. Shneyder, Bacterial Necrosis of Citrus Cultures on the Black Sea Coast of the Caucasus, 7 Apr.
6. O. A. Klyuchareva, Feeding and Nutritional Interrelation of Benthonic Fish of the Rybinsk Reservoir Which Feed at the Bottom, 7 Apr.
7. R. P. Zhenevskaya, Restorative Processes in the Liver of Vertebrates, 7 Apr.
8. I. A. Chernavina, The Influence of Molybdenum on a Crop and the Chemical Composition of Leguminous Plants, 3 Jul.
9. A. S. Moravskaya, Insects — A Blight on Oak Foliage Under the Conditions of Forest Cultivation in the Steppes of the Arid South-east, 3 Jul.
10. N. Ya. Markovich, The Biology of the Malaria Mosquito, 3 Jul.
11. M. I. Uryson, The Frontal Commissure in Man in a Comparative-Anatomic Light, 3 Jul.
12. N. V. Aleksakhina, Carbohydrate-Phosphorus Metabolism and the Composition of White (Breast) and Red (Leg) Muscles in Chickens, 3 Jul.
13. S. R. Mikulinskiy, I. Ye. Dyad'kovskiy, His Outlook and General Biological Views, 3 Jul.
14. P. T. Kolomiyets, The Rest Stage in Red Clover, 3 Jul.
15. R. M. Vager, The Significance of the Potato Disease, "Big Bud," [Stolbur] and Fusariosis in the Phenomenon of Premature Withering of Potatoes in the South, 3 Jul.
16. K. N. Blagosklonov, The Biology of Nesting of Insectivorous Hollow-Nest-Building Birds and Methods of Attracting Them, 3 Jul.
17. M. G. Abdushelishvili, On the Paleanthropology of the Samtavr Sepulcher, 7 Apr.
18. A. A. Neyfakh, Experimental Investigation of the Development of the Cornea of a Chick, 7 Apr.
19. K. P. Tsvetkova, Isolation of Wax and the Building Up of Honeycombs by Bees of Various Species, 7 Apr.

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20. B. M. Zelikson, The Influence of Potassium, Sodium, and Calcium on Hydrocarbon /Carbohydrate? Metabolism and the Harvest of Crops, 3 Jul.
21. V. B. Kuvayev, Altitude Distribution of Plant Incrustation in the Lyapin Urals, 3 Jul.
22. M. G. Karayev, Birds of Western Uzboy, 3 Sep.
23. L. S. Kozlovskaya, Subfossil Mollusk Fauna of Several Lakes East of the Urals, Northern Kazakhstan, and Moscow Area; Its Genesis and Evolution on the Background of the Development of Ponds, 7 Apr.
24. V. A. Lineva, On the Growth, Composition, and Seasonal Progress of the Quantity of Musca Domestica, 7 Apr.

Geography Faculty

1. I. M. Zabelin, Landscapes of the Upper Part of the Irkutsk Basin (Eastern Sayan), 7 Apr.
2. R. D. Zabiroy, Glaciation of the Pamirs, 2 Jun.
3. L. Ye. Iofa, Cities of the Urals, 2 Jun.
4. B. V. Poltaraus, Drought in the Territory of Voronezhskaya and Tambovskaya Oblasts and the Role of Irrigation Ditches in the Control of Drought, 2 Jun.
5. S. L. Vendrov, Methods of Investigation of the Change of Maximum River Flow Taking Into Account the Transformations of Natural Geographical Conditions in the Basins of Large Rivers, 2 Jun.
6. B. V. Ovdiyenko, The Inner Mongolian Autonomous Region (Economic-Geographical Characteristics), 2 Jun.
7. A. S. Shklyayev, The Influence of Agricultural Activities of Man on the Flow of the Oka River to the City of Kaluga, 2 Jul.
8. I. V. Kozlov, Greece (Physical-Geographical Characteristics), 3 Jul.
9. M. B. Yakover, The Don-Khoper Interfluence (Physical-Geographical Characteristics), 3 Jul.
10. A. Ye. Sluka, The Geography of the Migrations of Population in France in Connection With the Depopulation of Villages, 3 Jul.
11. Ye. M. Nikolayevskaya, Creation and Investigation of Complex Maps in a Complex Geographical Investigation (The Experience of the Work of the Complex Expedition of the Scientific Research Institute of Geography, Moscow State University, in the Central Chernozem Region), 7 Apr.

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Geology Faculty

M. L. Plakkin, An Investigation of the Dependence of the Qualities of
Argillaceous Suspensions (Employed During Drilling) on the Nature of
Clay, 3 Jul.

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